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November 15, 2000

Mr. Nolan Bennett  
Environmental Health Scientist  
Bernalillo County Environmental Health Department  
600 Second St. NW, Suite 500  
Albuquerque, NM 87102

Sent via E-Mail: [nbennett@bernco.gov](mailto:nbennett@bernco.gov) and US Mail

RE: Transmittal of 1<sup>st</sup> Quarterly Ground Water Sampling Results  
430 Isleta SW, The Old Horn Site; NMED/USTB Facility ID No. 301002  
Contract Control No. 980473

Dear Nolan:

Please find included herewith the results of the first quarter of ground water sampling and analysis for the subject site. This transmittal includes:

- a site map showing well locations with notated analytical results;
- a summary table with a current tabulation of ground water analytical results; and
- laboratory report of analyses.

As you are aware, Faith Engineering, Inc. and their subcontractor Tecumseh Professional Associates (FEI/TPA) are conducting additional subsurface investigation activities at this site.

During this first quarterly ground water sampling activity, the well suspected of being most highly contaminated was also analyzed for polynuclear aromatics (PNAs) by EPA Method 8270 SIMS. Monitor well MW-10 was analyzed and the following PNAs were detected: 1-methyl naphthalene (19.1 µg/l), 2-methyl naphthalene (32.9 µg/l), and naphthalene (36.0 µg/l). Results of additional ground water and subsurface (Hydrogeologic) investigation will be provided by 1/15/01.

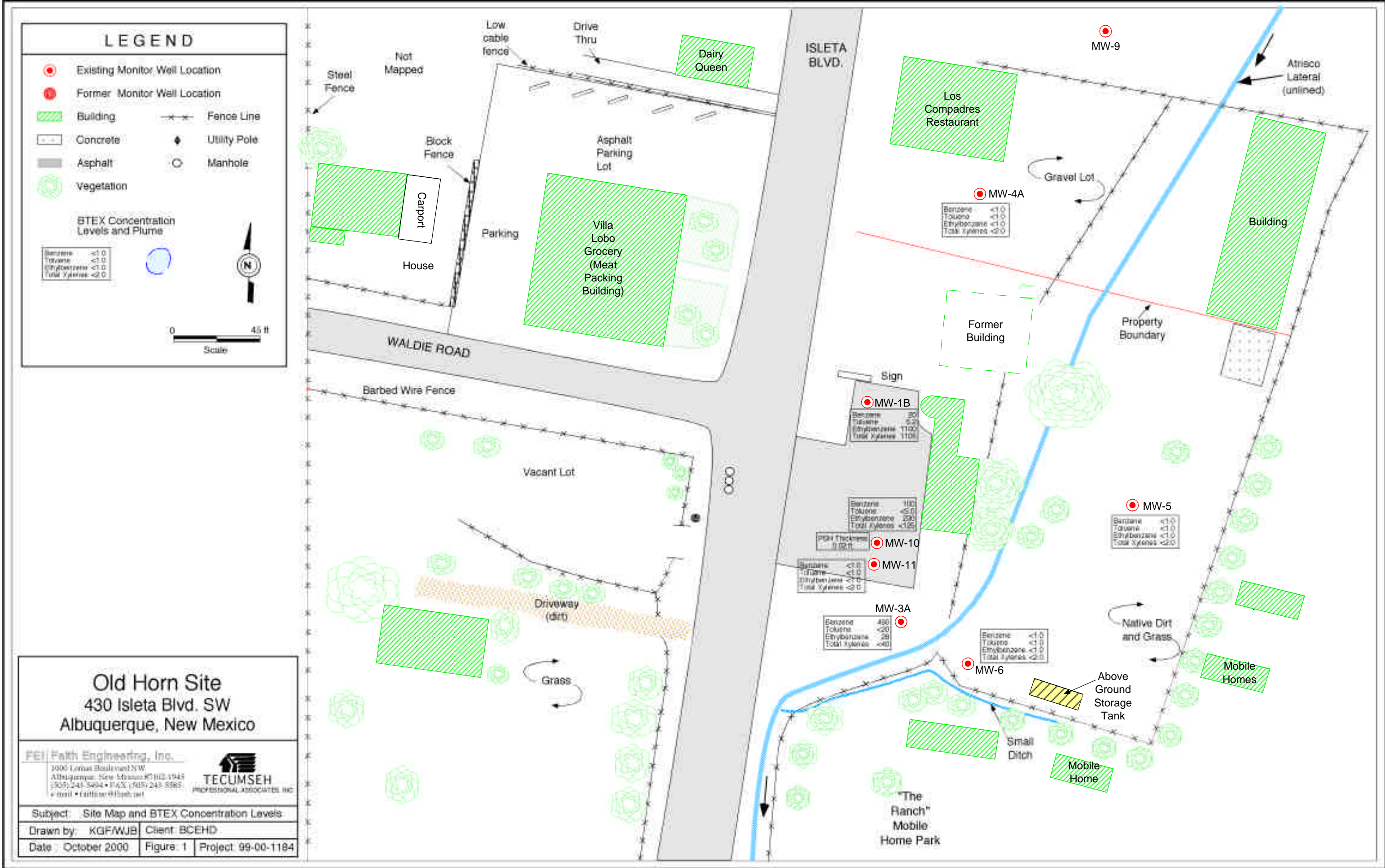
Please do not hesitate to contact the undersigned if you have any questions or comments regarding this matter.

Respectfully submitted,

FAITH ENGINEERING, INC.

Stuart E. Faith – President

cc. w/ encls. Mr. Tom Leck – NMED/USTB  
Mr. Bill Brown - TPA



**TABLE 1**  
**Old Horn 430 Isleta**  
**00-00-1184-05 • NMED FACILITY # 301002**  
**CURRENT GROUND WATER ANALYSIS RESULTS**

		ORGANICS									INORGANICS						INDICATORS			
LOCATION	DATE SAMPLED	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	TMB	NAPHTHALENE	IRON	PHOSPHATE	SULFIDE	ALKALINITY as CaCO3	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP.	
		µg/l 10	µg/l 750	µg/l 750	µg/l 620	µg/l 100	µg/l 0.1	ug/l 10	µg/l	µg/l		µg/l SOLUBLE	µg/l TOTAL	mg/l	mg/l	mg/l		mg/l	mg/l	µmhos/cm
MW - 1B	9/21/00	20	5.2	1100	<1105	< 5.0	< 5.0	< 5.0	1270	230	0.4	0.8	0.2	0.0	250	0.5	0.2	7.02	661	23.2
MW - 3A	9/21/00	490	< 20	28	<40	< 20	< 20	< 20	<40	130	3.0	3.0	1.5	0.0	350	1.0	0.2	6.55	883	23.1
MW - 4A	9/21/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	2.0	4.0	1.0	0.0	175	1.0	0.2	6.68	900	22.5
MW - 5	9/21/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.5	5.0	2.0	0.0	200	2.0	0.2	6.87	738	21.7
MW - 6	9/21/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	4.0	4.0	5.0	0.0	250	0.5	0.8	6.47	844	19.9
MW - 10	9/21/00	100	< 5.0	230	<125	< 5.0	< 5.0	< 5.0	73.5	62	5.0	6.0	0.6	0.1	250	0.5	0.4	6.81	801	24.3
MW - 11	9/21/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.0	1.5	4.0	0.0	175	0.5	0.1	6.76	766	22.1
Rinsate	9/21/00	1.1	< 1.0	2.9	< 3.0	< 1.0	< 1.0	< 1.0	< 2.1	1.6	*	*	*	*	*	*	*	*	*	*
Trip Blank	9/21/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	*	*	*	*	*	*	*

Data checked \_\_\_\_\_ / \_\_\_\_\_

## **APPENDIX 1**

### **Sampling Protocol**

Prior to any sampling, well development or purging, all monitor wells were sounded for depth to ground water. FEI used an electronic sounder with an accuracy of  $\pm 0.01$ /foot. Ground water elevations (from datum) were determined using survey data collected during the Hydrogeologic Investigation.

Prior to any sampling event, a minimum of three (3) well bore volumes were purged from each well using a Grundfos Sampling Pump. Samples were collected in HCl preserved VOAs and placed on ice in a container for delivery to Pinnacle Laboratories, in Albuquerque, New Mexico, for analyses. The ground water samples were analyzed for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Naphthalene, Methyl-t-Butyl Ether (MTBE), TMB, Ethylene Dibromide (EDB) and Ethylene Dichloride (EDC) by EPA Method 8260 and for polynuclear aromatics (PNA) by EPA Method 8270 SIMS. Natural attenuation indicator parameters Iron, Phosphate, Sulfide, Alkalinity, pH, dissolved oxygen, conductivity, temperature and nitrate were analyzed and measured in the field using the appropriate field test kits and equipment. All EPA-approved sampling protocols were observed and a chain of custody was maintained on all samples.

## **APPENDIX 2**

### **Field Notes**

## **APPENDIX 3**

### **Analytical Laboratory Reports**